

POLYMORPHISMS IN THE BETA-2-ADRENERGIC RECEPTOR GENE

CCCCGGTTCA	AGAGATTCTC	CTGTCTCAGC	CTCCCCGAGTA	GCTGGGACTA	
CAGGTACGTG	CCACCACACC	TGGCTAATTT	TTGTATTTTT	AGTAGAGACA	100
AGAGTTACAC	CATATTGGCC	AGGATCTTTT	GCTTTCTATA	GCTTCAAAT	
GTTCTTAATG	TTAAGACATT	CTTAATACTC	TGAACCATAT	GAATTTGCCA	200
TTTTGGTAAG	TCACAGACGC	CAGATGGTGG	CAATTTCACA	TGGCACAACC	
CGAAAGATTA	ACAAACTATC	CAGCAGATGA	AAGGATTTTT	TTTAGTTTCA	300
TTGGGTTTAC	TGAAGAAATT	GTTTGAATTC	TCATTGCATC	TCCAGTTCAA	
CAGATAATGA	GTGAGTGATG	CCACACTCTC	AAGAGTTAAA	AACAAAACAA	400
CAAAAAAATT	AAAACAAAAG	CACACAACCT	TCTCTCTCTG	TCCCAAAATA	
CATACTTGCA	TACCCCCGCT	CCAGATAAAA	TCCAAAGGGT	AAAACGTCT	500
TCATGCCTGC	AAATTCCTAA	GGAGGGCACC	TAAAGTACTT	GACAGCGAGT	
GTGCTGAGGA	AATCGGCAGC	TGTTGAAGTC	ACCTCCTGTG	CTCTTGCCAA	600
A					
ATGTTTGAAA	GGGAATACAC	TGGGTTACCG	GGTGTATGTT	GGGAGGGGAG	
CATTATCAGT	GCTCGGGTGA	GGCAAGTTCT	GAGTACCCAG	ATGGAGACAT	700
CCGTGTCTGT	GTCGCTCTGG	ATGCCTCCAA	GCCAGCGTGT	GTTTACTTTC	
TGTGTGTGTC	ACCATGTCTT	TGTGCTTCTG	GGTGCTTCTG	TGTTTGTTTC	800
TGGCCGCGTT	TCTGTGTTGG	ACAGGGGTGA	CTTTGTGCCG	GATGGCTTCT	
GTGTGAGAGC	GCGCGCGAGT	GTGCATGTCT	GTGAGCTGGG	AGGGTGTGTC	900
A					
TCAGTGTCTA	TGGCTGTGGT	TCGGTATAAG	TCTGAGCATG	TCTGCCAGGG	
A					
TGTATTTGTG	CCTGTATGTG	CGTGCCCTCG	TGGGCACTCT	CGTTTCCTTC	1000
CGAATGTGGG	GCAGTGCCCG	TGTGCTGCCC	TCTGCCTTGA	GACCTCAAGC	
CGCGCAGGCG	CCCAGGGCAG	GCAGGTAGCG	GCCACAGAAG	AGCCAAAAGC	1100
TCCCGGGTTG	GCTGTAAGG	ACACCACCTC	CAGCTTTAGC	CCTCTGGGGC	
C					
CAGCCAGGGT	AGCCGGGAAG	CAGTGGTGGC	CCGCCCTCCA	GGGAGCAGTT	1200
T					
GGGCCCCGCC	CGGGCCAGCC	CCAGGAGAAG	GAGGGCGAGG	GGAGGGGAGG	
T					
GAAAGGGGAG	GAGTGCCCTG	CCCCTTCGCG	GCTGCCGGCG	TGCCATTGGC	1300
CGAAAGTTCC	CGTACGTCAC	GGCGAGGGCA	GTTCCCCTAA	AGTCCTGTGC	
ACATAACGGG	CAGAACGCAC	TGCGAAGCGG	CTTCTTCAGA	GCACGGGCTG	1400
GAACTGGCAG	GCACCGCGAG	CCCCTAGCAC	CCGACAAGCT	GAGTGTGCAG	
GACGAGTCCC	CACCACACCC	ACACCACAGC	CGCTGAATGA	GGCTTCCAGG	1500
CGTCCGCTCG	CGGCCCGCAG	AGCCCCGCCG	TGGGTCCGCC	CGCTGAGGCG	
T					

Figure 1A

CCCCCAGCCA GTGCGCTTAC CTGCCAGACT GCGCGCCATG GGGCAACCCG 1600
 C
 GGAACGGCAG CGCCTTCTTG CTGGCACCCA ATAGAAGCCA TCGCCCGGAC
 G
 CACGACGTCA CGCAGCAAAG GGACGAGGTG TGGGTGGTGG GCATGGGCAT 1700
 G
 CGTCATGTCT CTCATCGTCC TGGCCATCGT GTTTGGCAAT GTGCTGGTCA
 TCACAGCCAT TGCCAAGTTC GAGCGTCTGC AGACGGTCAC CAACTACTTC 1800
 ATCAGTTTAC TGGCCTGTGC TGATCTGGTC ATGGGCTTGG CAGTGGTGGC
 A
 CTTTGGGGCC GCCCATATTC TTATGAAAAT GTGGACTTTT GGCAACTTCT 1900
 GGTGCGAGTT TTGGACTTCC ATTGATGTGC TGTGGTCCAC GGCCAGCATT
 GAGACCCTGT GCGTGATCGC AGTGGATCGC TACTTTGGCA TTACTTCAGC 2000
 TTTCAAGTAC CAGAGCCTGC TGACCAAGAA TAAGGCCCGG GTGATCATT
 TGATGGTGTG GATTGTGTCA GGCCTTACCT CCTTCTTGGC CATTGAGATG 2100
 T
 CACTGGTACC GGGCCACCCA CCAGGAAGCC ATCAACTGCT ATGCCAATGA
 A
 GACCTGCTGT GACTTCTTCA CGAACCAAGC CTATGCCATT GCCTCTTCCA 2200
 TCGTGTCCCT CTACGTTCCC CTGGTGATCA TGGTCTTCGT CTACTCCAGG
 GTCTTTTAGG AGGCCAAAAG GCAGCTCCAG AAGATTGACA AATCTGAGGG 2300
 CCGCTTCCAT GTCCAGAACC TTAGCCAGGT GGAGCAGGAT GGGCCGACCG
 GGCATGGACT CCGCAGATCT TCCAAGTTCT GCTTGAAGGA GCACAAAGCC 2400
 CTCAAGACGT TAGGCATCAT CATGGGCACT TTCACCCCTCT GCTGGCTGCC
 CTTCTTATC GTTAACATTG TGCATGTGAT CCAGGATAAC CTCATCCGTA 2500
 AGGAAGTTTA CATCCTCCTA AATTGGATAG GCTATGTCAA TTCTGGTTTC
 AATCCCTTAA TCTACTGCCG GAGCCAGAT TTCAGGATTG CTTTCCAGGA 2600
 GCTTCTGTGC CTGCGCAGGT CTTCTTTGAA GGCCTATGGG AATGGCTACT
 CCAGCAACGG CAACACAGGG GAGCAGAGTG GATATCAGGT GGAACAGGAG 2700
 AAAGAAAATA AACTGCTGTG TGAAGACCTC CCAGGCACGG AAGACTTTGT
 GGGCOATCAA GGTACTGTGC CTAGCGATAA CATTGATTCA CAAGGGAGGA 2800
 ATTGTAGTAC AAATGACTCA CTGCTGTAAA GCAGTTTTTC TACTTTTAAA
 GACCCCCCCC CCCCCAACAG AACACTAAAC AGACTATTTA ACTTGAGGGT 2900
 AATAAACTTA GAATAAAATT GTAAAAATTG TATAGAGATA TGCAGAAGGA
 AGGGCATCCT TCTGCCTTTT TTATTTTTTT AAGCTGTAAA AAGAGAGAAA 3000
 ACTTATTTGA GTGATTATTT GTTATTTGTA CAGTTCAGTT CCTCTTTGCA
 TGGAATTTGT AAGTTTATGT CTAAAGAGCT TTAGTCCTAG AGGACCTGAG 3100
 TCTGCTATAT TTTTATGACT TTTCCATGTA TCTACCTCAC TATTCAAGTA
 TTAGGGGTAA TATATTGCTG CTGGTAATTT GTATCTGAAG GAGATTTTCC 3200
 TTCCTACACC CTTGGACTTG AGGATTTTGA GTATCTCGGA CCTTTCAGCT

Figure 1B

GTGAACATGG ACTCTTCCCC CACTCCTCTT ATTTGCTCAC ACGGGGTATT 3300
TTAGGCAGGG ATTTGAGGAG CAGCTTCAGT TGTTTTCCCG AGCAAAGGTC
TAAAGTTTAC AGTAAATAAA ATGTTTGACC ATGCCTTCAT TGCACCTGTT 3400
TGTCCAAAAC CCCTTGACTG GAGTGCTGTT GCCTCCCCCA CTGGAAACCG
C 3451

Figure 1C

ISOFORMS OF BETA-2-ADRENERGIC RECEPTOR (ADRB2)

MGQPGNGSAF	LLAPNRSHAP	DHDVTQQRDE	VWVVGMGIVM	SLIVLAIVFG	
	G	E			
NVLVITAIK	FERLQTVTNY	FITSLACADL	VMGLAVVPFG	AAHILMKMWT	100
FGNFWCEFWT	SIDVLCVTAS	IETLCVIAVD	RYFAITSPFK	YQSLLTKNKA	
RVIILMVWIV	SGLTSFLPIQ	MHWYRATHQE	AINCYANETC	CDFFTNQAYA	200
	I				
IASSIVSFYV	PLVIMVHVYS	RVFQEAKRQL	QKIDKSEGRF	HVQNLSQVEQ	
DGRTGHGLRR	SSKFCLKEHK	ALKTLGIIMG	TFTLCWLPFF	IVNIVHVIQD	300
NLIRKEVYIL	LNWIGYVNSG	FNPLIYCRSP	DFRIAFQELL	CLRRSSLKAY	
GNGYSSNGNT	GEQSGYHVEQ	EKENKLLCED	LPGTEDFVGH	QGTVPDNDID	400
SQGRNCSTND	SLL				413

FIGURE 2

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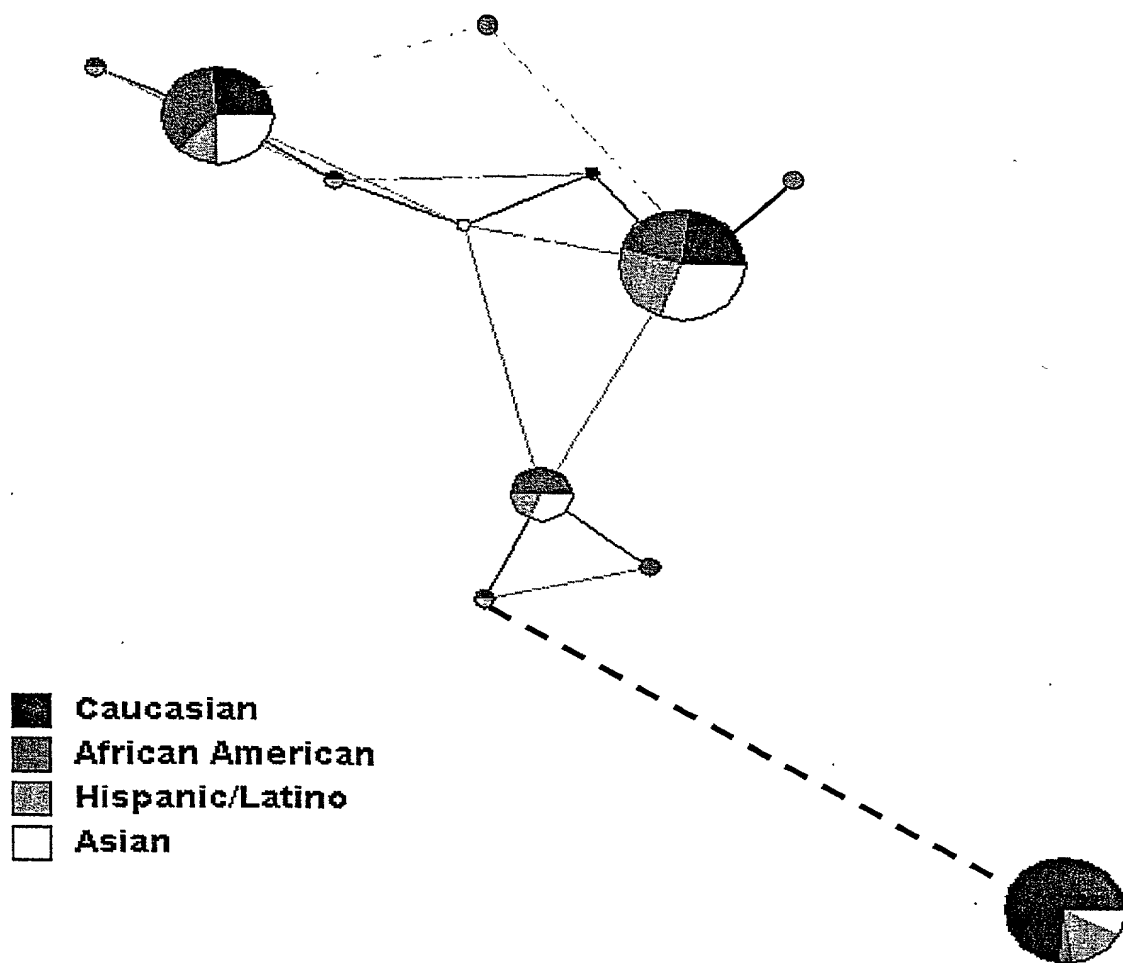


Figure 3

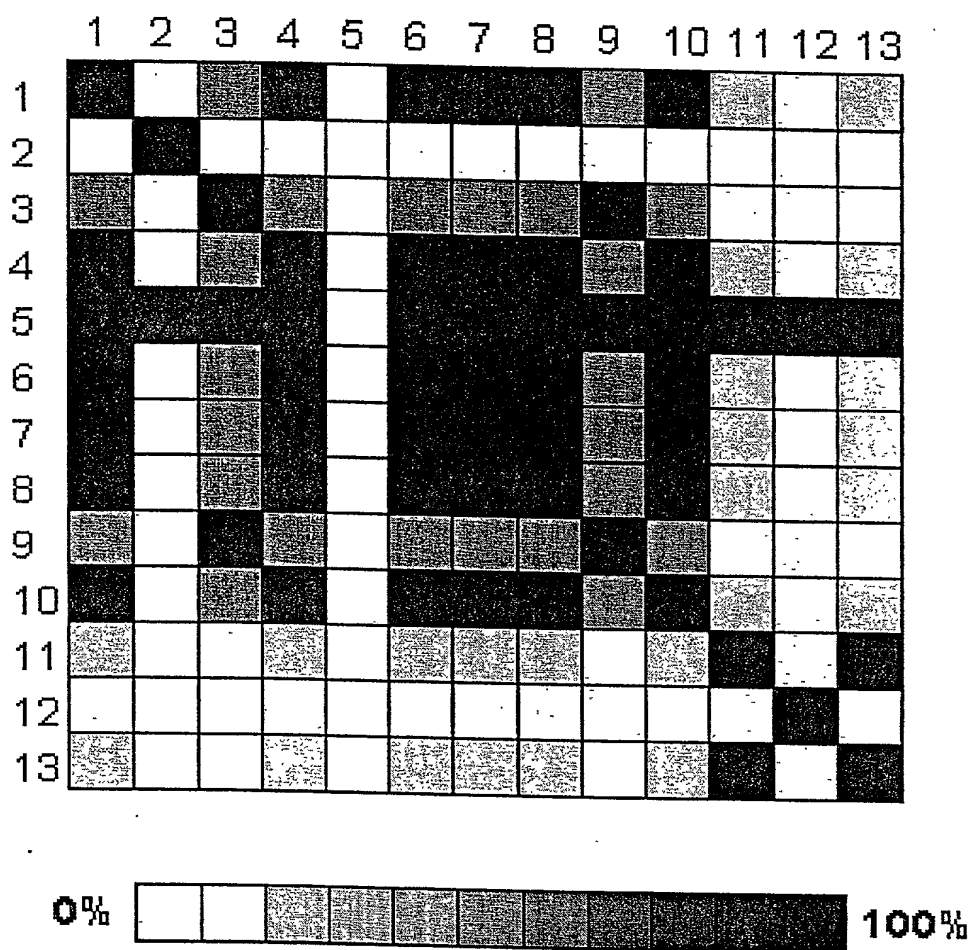


Figure 4

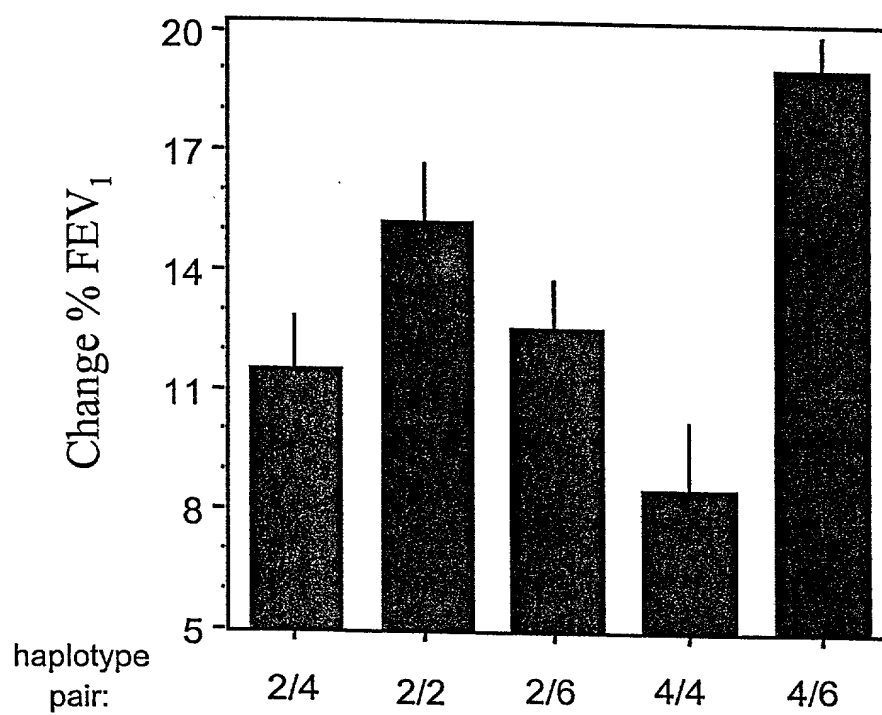


Figure 5

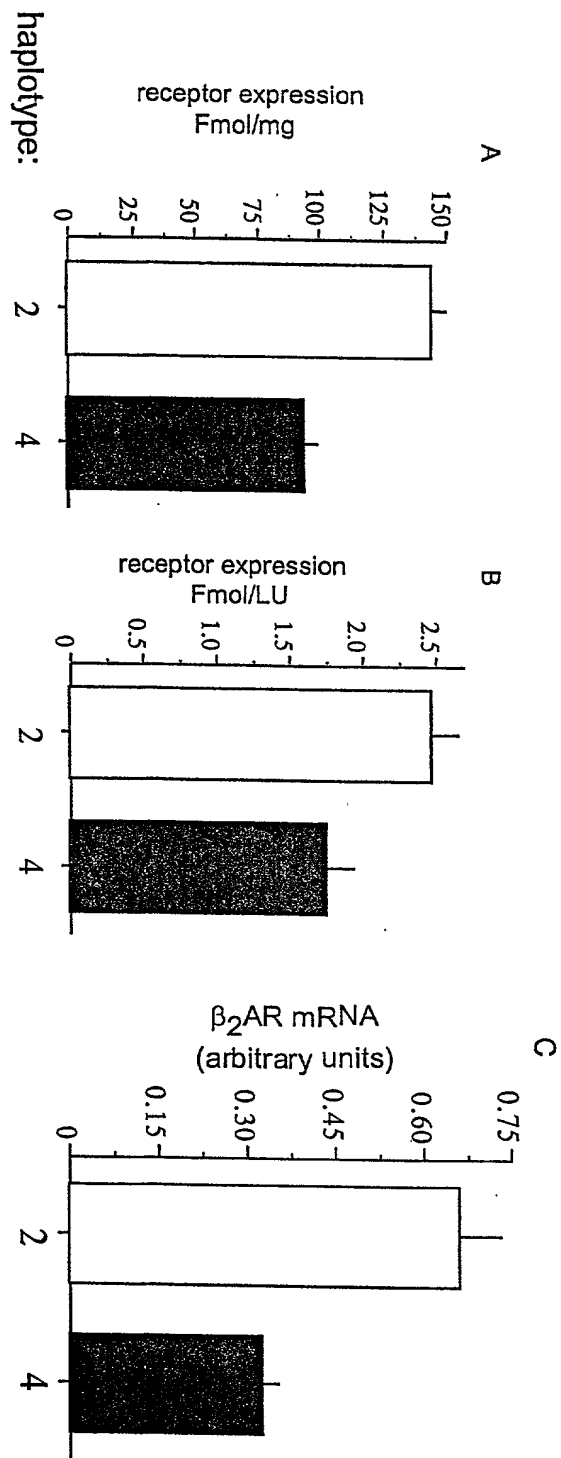


Figure 6